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12.3.8 v.6

Issuance Date: July 6, 1994
Effective Date: August 6, 1994
Expiration Date: August 6, 1999

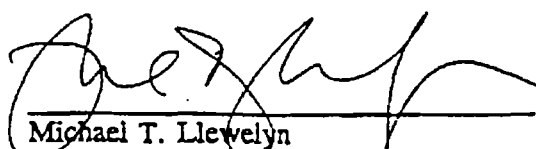
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
AND STATE WASTE DISCHARGE GENERAL PERMIT FOR
PROCESS WATER, STORM WATER, AND MINE DEWATERING WATER DISCHARGES
ASSOCIATED WITH
SAND AND GRAVEL OPERATIONS, ROCK QUARRIES,
AND SIMILAR MINING FACILITIES,
INCLUDING STOCKPILES OF MINED MATERIALS,
CONCRETE BATCH OPERATIONS AND HOT MIX ASPHALT OPERATIONS

State of Washington
DEPARTMENT OF ECOLOGY
Olympia, Washington 98504-7696

In compliance with the provisions of
The State of Washington Water Pollution Control Law
Chapter 90.48 Revised Code of Washington
and
The Federal Water Pollution Control Act
(The Clean Water Act)
Title 33 United States Code, Section 1251 et seq.

Until this permit expires, is modified or revoked, permittees that have properly obtained coverage under this permit are authorized to discharge to waters of the state in accordance with the special and general conditions which follow.

RECEIVED
FEB 27 1995
AGCW-SEATTLE


Michael T. Llewellyn
Water Quality Program Manager
Department of Ecology

USEPA SF

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1. The first step is to identify the key components of the system. This includes the hardware (e.g., sensors, actuators, controllers) and the software (e.g., algorithms, data structures).

1. *Chlorophyll *a** was determined by the method of Arar and Collins (1971).

[illegible]

207A34-000

Permit No.: WAG 50-3044
Coverage Date: October 21, 1994
Issuance Date: July 6, 1994
Effective Date: August 6, 1994
Expiration Date: August 6, 1999

Operator Name & Address:

Mr. Bob Haight
Olson & Taylor
PO Box 130
Arlington, WA 98223

Owner Name & Address:

Ash Grove Cement Company
3801 E Marginal Way S
Seattle, WA 98134

Co-Permittee? No

Facility/Site Name & Address:

Superior Quarry
Mile 3, Hwy 410, near Scatter Creek
East of Enumclaw, WA

Water Source: None

Latitude: 47° 9' 43"
Longitude: 121° 51' 18"

Discharge Information:

GROUND WATER

SURFACE WATER

Process Water	N	N
Mine Dewatering Water	N	N
Storm Water	Y	N

RECEIVING SURFACE WATER INFORMATION

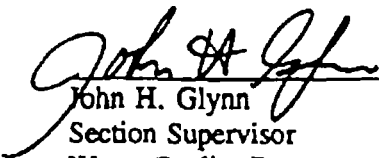
Name: N/A
Water Class:
Water Body I.D. No.:

SIC Codes Representing Activities:

1429 Crushed and Broken Stone,
Not Elsewhere Classified

Facility/Site Status:

Site Permit


John H. Glynn
Section Supervisor
Water Quality Program
Northwest Regional Office
Bellevue, Washington

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II. SUMMARY OF SUBMITTALS

<u>Permit Section</u>	<u>Submittal</u>	<u>Frequency</u>	<u>First Preparation Date</u>
	SEPA Checklist to lead agency	Once	New facilities: Prior to submission of Notice of Intent
S9.	Storm Water Monitoring Report	1/year	All facilities: By July 15th for each year or partial year of coverage under the general permit
S10.	Wastewater Monitoring Report	4/year	All facilities: By January 15th, April 15th, July 15th, and October 15th for each year or partial year of coverage under the general permit

III. SUMMARY OF REQUIRED REPORTS/PLANS

<u>Permit Section</u>	<u>Plan</u>	<u>Frequency</u>	<u>First Preparation Date</u>
S6.	Storm Water Pollution Prevention Plan	1/permit cycle	Existing facilities: Not later than April 4, 1995; New facilities: Prior to coverage under this general permit.
S7.	Storm Water Pollution Prevention Plan for Erosion and Sediment Control	1/permit cycle	Existing facilities: Not later than April 4, 1995; New facilities: Prior to coverage under this general permit.
S8.	Monitoring Plan	1/permit cycle	Existing facilities: Not later than 3 months after coverage under the general permit; New facilities: Prior to coverage under this general permit.

IV. SPECIAL CONDITIONS

S1. Effluent Limits

Beginning on the effective date of this permit and lasting through the expiration date, the Permittee is authorized to discharge *process wastewater*¹, *Type 3 storm water* (storm water associated with industrial activity), and/or *mine dewatering water* at the permitted location subject to meeting the following limitations: (¹Note: terms listed in Section V., Definitions, are *italicized* upon their first usage in this general permit.)

A. The following effluent limitations apply to *active sites* in these SIC codes:

SIC Code 0811 Timber Tracts
SIC Code 1422 Crushed and Broken Limestone
SIC Code 1423 Crushed and Broken Granite
SIC Code 1429 Crushed and Broken Stone, Not Elsewhere Classified
SIC Code 1442 Construction Sand and Gravel
SIC Code 2411 Logging

1. Process wastewater discharges:

Process Wastewater	EFFLUENT LIMITATIONS	
Parameter ^a	Average Monthly ^b	Maximum Daily ^c
<i>Total Suspended Solids</i>	40 mg/liter	80 mg/liter
<i>Turbidity</i>	50 NTU	50 NTU
<i>pH</i> (for discharges to surface water)	in the range 6.0-9.0	in the range 6.0-9.0
<i>pH</i> (for discharges to ground water)	in the range 6.5-8.5	in the range 6.5-8.5
^a For discharges to ground water, only pH shall be monitored.		
^b The average monthly effluent limitation is defined as the highest allowable average of daily discharges over a calendar month, calculated as the sum of all daily discharges measured during a calendar month divided by the number of daily discharges measured during that month.		
^c The maximum daily effluent limitation is defined as the highest allowable daily discharge.		

2. Mine dewatering discharges:

Mine Dewatering	EFFLUENT LIMITATIONS	
Parameter ^a	Average Monthly ^b	Maximum Daily ^c
Total Suspended Solids	40 mg/liter	80 mg/liter
Turbidity	50 NTU	50 NTU
pH (for discharges to surface water)	in the range 6.0-9.0	in the range 6.0-9.0
pH (for discharges to ground water)	in the range 6.5-8.5	in the range 6.5-8.5
^a For discharges to ground water, only pH shall be monitored.		
^b The average monthly effluent limitation is defined as the highest allowable average of daily discharges over a calendar month, calculated as the sum of all daily discharges measured during a calendar month divided by the number of daily discharges measured during that month.		
^c The maximum daily effluent limitation is defined as the highest allowable daily discharge.		

B. The following effluent limitations apply to active sites in these SIC codes:

SIC Code 1411 Dimension Stone

SIC Code 1455 Kaolin and Ball Clay

SIC Code 1459 Clay, Ceramic, and Refractory Minerals, Not Elsewhere Classified

SIC Code 1499 Miscellaneous Nonmetallic Minerals, Except Fuels

1. Process wastewater discharges:

The Permittee shall not discharge process wastewater to *surface waters of the State*.

2. Mine Dewatering Discharges:

Mine Dewatering	EFFLUENT LIMITATIONS	
Parameter ^a	Average Monthly ^b	Maximum Daily ^c
Total Suspended Solids	40 mg/liter	80 mg/liter
Turbidity	50 NTU	50 NTU
pH (for discharges to surface water)	in the range 6.0-9.0	in the range 6.0-9.0
pH (for discharges to ground water)	in the range 6.5-8.5	in the range 6.5-8.5
^a For discharges to ground water, only pH shall be monitored.		
^b The average monthly effluent limitation is defined as the highest allowable average of daily discharges over a calendar month, calculated as the sum of all daily discharges measured during a calendar month divided by the number of daily discharges measured during that month.		
^c The maximum daily effluent limitation is defined as the highest allowable daily discharge.		

C. The following effluent limitations apply to SIC Code 3273 Ready-Mixed Concrete, including associated concrete truck washout areas:

1. Process wastewater discharges:

Process Water	EFFLUENT LIMITATIONS	
Parameter ^a	Average Monthly ^b	Maximum Daily ^c
Total Suspended Solids	40 mg/liter	80 mg/liter
Turbidity	50 NTU	50 NTU
pH (for discharges to surface water)	in the range 6.0-9.0	in the range 6.0-9.0
pH (for discharges to ground water)	in the range 6.5-8.5	in the range 6.5-8.5
^a For discharges to ground water, only pH shall be monitored.		
^b The average monthly effluent limitation is defined as the highest allowable average of daily discharges over a calendar month, calculated as the sum of all daily discharges measured during a calendar month divided by the number of daily discharges measured during that month.		
^c The maximum daily effluent limitation is defined as the highest allowable daily discharge.		

- D. The following effluent limitations apply to SIC Code 2951 Asphalt Paving Mixtures and Blocks, including associated asphalt truck washout areas:

1. Process wastewater discharges:

The Permittee shall not discharge process water to surface waters of the State.

- E. The following effluent limitations apply to SIC Code 1446 Industrial Sand:

1. Process wastewater discharges:

Process Water	EFFLUENT LIMITATIONS	
Parameter ^a	Average Monthly ^b	Maximum Daily ^c
Total Suspended Solids	25 mg/liter	45 mg/liter
Turbidity	50 NTU	50 NTU
pH (for discharges to surface water)	in the range 6.0-9.0	in the range 6.0-9.0
pH (for discharges to ground water)	in the range 6.5-8.5	in the range 6.5-8.5
^a For discharges to ground water, only pH shall be monitored.		
^b The average monthly effluent limitation is defined as the highest allowable average of daily discharges over a calendar month, calculated as the sum of all daily discharges measured during a calendar month divided by the number of daily discharges measured during that month.		
^c The maximum daily effluent limitation is defined as the highest allowable daily discharge.		

2. Mine Dewatering Discharges:

Mine Dewatering	EFFLUENT LIMITATIONS	
Parameter ^a	Average Monthly ^b	Maximum Daily ^c
Total Suspended Solids	25 mg/liter	45 mg/liter
Turbidity	50 NTU	50 NTU
pH (for discharges to surface water)	in the range 6.0-9.0	in the range 6.0-9.0
pH (for discharges to ground water)	in the range 6.5-8.5	in the range 6.5-8.5
^a For discharges to ground water, only pH shall be monitored.		
^b The average monthly effluent limitation is defined as the highest allowable average of daily discharges over a calendar month, calculated as the sum of all daily discharges measured during a calendar month divided by the number of daily discharges measured during that month.		
^c The maximum daily effluent limitation is defined as the highest allowable daily discharge.		

F. The following effluent limitation for Type 3 storm water applies to all active sites covered by this general permit:

Type 3 Storm water	EFFLUENT LIMITATION	
Parameter ^a	Average Monthly ^b	Maximum Daily ^c
pH (for discharges to surface water)	in the range 6.0-9.0	in the range 6.0-9.0
pH (for discharges to ground water)	in the range 6.5-8.5	in the range 6.5-8.5
Turbidity	50 NTU	50 NTU
^a For discharges to ground water, only pH shall be monitored.		
^b The average monthly effluent limitation is defined as the highest allowable average of daily discharges over a calendar month, calculated as the sum of all daily discharges measured during a calendar month divided by the number of daily discharges measured during that month.		
^c The maximum daily effluent limitation is defined as the highest allowable daily discharge.		

- G. The mixing zone allowed in this general permit shall be no larger than the maximum allowed in Chapter 173-201A WAC.
- H. Any Permittee unable to comply with the Total Suspended Solids or Turbidity effluent limitations in Special Condition S1.A, S1.B, or S1.C, or the Turbidity effluent limitations in S1.E or S1.F, shall:

1. Prepare an individual engineering report for the facility and submit an application for an individual permit; or
2. Participate in a group engineering report with other facilities in the same SIC Code.

Any engineering report submitted to the *department* shall conform to the requirements of Special Condition S4.E.

A permittee that is required to prepare an engineering report under item 1 or 2 above shall remain covered by this general permit during the preparation of the engineering report in Special Condition S4.E.

- I. Discharges of storm water to *sanitary sewers* is prohibited pursuant to WAC 173-216(b)(vii).
- J. Any overflow from any wastewater treatment system for storm water, mine dewatering water, or process water shall not be subject to the limitations of Special Conditions S1.A. through S1.F. if the wastewater treatment system is designed, constructed, and maintained to contain and treat wastewater and the volume of storm water that would result from the design storm.

S2. Monitoring Schedule

- A. The following monitoring schedule applies to active sites in these SIC codes:

SIC Code 0811 Timber Tracts
SIC Code 1422 Crushed and Broken Limestone
SIC Code 1423 Crushed and Broken Granite
SIC Code 1429 Crushed and Broken Stone, Not Elsewhere Classified
SIC Code 1442 Construction Sand and Gravel
SIC Code 1446 Industrial Sand
SIC Code 2411 Logging

1. Within 3 months of coverage under this general permit, permittees shall monitor process water, Type 3 storm water, and mine dewatering water to include the following requirements:

Parameter	Sample Point	Sampling Frequency	
		Process Water	Storm Water*
Total Suspended Solids	Discharge point(s) to surface water	Monthly	Not Applicable
Turbidity	Discharge point(s) to surface water	Monthly	Quarterly
pH	Discharge point(s) to surface water and to all unlined impoundments	Monthly	Quarterly
* Storm water samples collected and analyzed once per quarter when storm water is present			

2. Within 36 months of coverage under this general permit, permittees shall monitor process water, Type 3 storm water, and mine dewatering water to include the following additional requirements:

Parameter	Sample Point	Sampling Frequency	
		Process Water	Storm Water
Total Petroleum Hydrocarbons <i>Water Quality Analysis standard Method 18-2.1.1</i>	Discharge point(s) to surface water and to all unlined impoundments	Monthly	Annually
Nitrate ¹	Discharge point(s) to surface water and to all unlined impoundments	Monthly	Annually

¹ Applies only to active sites employing blasting

B. The following monitoring schedule applies to active sites in these SIC codes:

SIC Code 1411 Dimension Stone
SIC Code 1455 Kaolin and Ball Clay
SIC Code 1459 Clay, Ceramic, and Refractory Minerals, Not
Elsewhere Classified
SIC Code 1499 Miscellaneous Nonmetallic Minerals, Except Fuels

1. Within 3 months of coverage under this general permit, permittees shall monitor mine dewatering water and Type 3 storm water to include the following requirements:

		Sampling Frequency	
Parameter	Sample Point	Process Water	Storm Water*
Total Suspended Solids	Discharge point(s) to surface water	Monthly	Not Applicable
Turbidity	Discharge point(s) to surface water	Monthly	Quarterly
pH	Discharge point(s) to surface water and to all unlined impoundments	Monthly	Quarterly
* Storm water samples collected and analyzed once per quarter when storm water is present			

2. Within 36 months of coverage under this general permit, permittees shall monitor process water, Type 3 storm water, and mine dewatering water to include the following additional requirements (process water shall be discharged in accordance with Special Condition S1.B.1 only):

Parameter	Sample Point	Sampling Frequency	
		Process Water	Storm Water
Total Dissolved Solids	Discharge point(s) to all unlined impoundments	Monthly	Annually
Total Petroleum Hydrocarbons	Discharge point(s) to surface water and to all unlined impoundments	Monthly	Annually
Nitrate ¹	Discharge point(s) to surface water and to all unlined impoundments	Monthly	Annually

¹ Applies only to active sites employing blasting

- C. The following monitoring schedule applies to SIC Code 3273, Ready-Mixed Concrete, including associated concrete truck washout areas:

1. Within 3 months of coverage under this general permit, permittees shall monitor process water and Type 3 storm water to include the following requirements:

Parameter	Sample Point	Sampling Frequency	
		Process Water	Storm Water ^a
Total Suspended Solids	Discharge point(s) to surface water	Monthly	Not Applicable
Turbidity	Discharge point(s) to surface water	Monthly	Quarterly
pH	Discharge point(s) to surface water and to all unlined impoundments	Monthly	Quarterly
^a Storm water samples collected and analyzed once per quarter when storm water is present			

2. Within 36 months of coverage under this general permit, permittees shall monitor process water and Type 3 storm water to include the following additional requirements:

Parameter	Sample Point	Sampling Frequency	
		Process Water	Storm Water
Chloride	Discharge point(s) to surface water and all unlined impoundments	Monthly	Annually
Sulfate	Discharge point(s) to surface water and all unlined impoundments	Monthly	Annually
Total Petroleum Hydrocarbons	Discharge point(s) to surface water and all unlined impoundments	Monthly	Annually
Alkalinity	Discharge point(s) to surface water and all unlined impoundments	Monthly	Annually
Total Dissolved Solids	Discharge point(s) to surface water and all unlined impoundments	Monthly	Annually
Nitrate	Discharge point(s) to surface water and all unlined impoundments	Monthly	Annually
Oil and Grease	Discharge point(s) to surface water	Monthly	Annually

- D. The following monitoring schedule applies to SIC Code 2951 Asphalt Paving Mixtures and Blocks, including associated asphalt truck washout areas:

1. Within 3 months of coverage under this general permit, permittees shall monitor Type 3 storm water to include the following requirements:

Parameter	Sample Point	Sampling Frequency	
		Process Water	Storm Water*
Turbidity	Discharge point(s) to surface water	Not Applicable	Quarterly
pH	Discharge point(s) to surface water and to all unlined impoundments	Not Applicable	Quarterly
* Storm water samples collected and analyzed once per quarter when storm water is present			

2. Within 36 months of coverage under this general permit, permittees shall monitor process water and Type 3 storm water to include the following additional requirements:

Parameter	Sample Point	Sampling Frequency	
		Process Water	Storm Water
pH	Discharge point(s) to all unlined impoundments	Monthly	Quarterly
Total Petroleum Hydrocarbons	Discharge point(s) to all unlined impoundments	Monthly	Annually
Total Dissolved Solids	Discharge point(s) to all unlined impoundments	Monthly	Annually
Oil and Grease	Discharge point(s) to all unlined impoundments	Monthly	Annually

S3. Permit Coverage

A. How to Obtain Coverage

Coverage under this permit may be obtained by submitting a completed *Notice of Intent (NOI)* for this general permit to the department. The department intends to notify applicants by mail of their status concerning coverage under this permit within 30 days of the department's receipt of the NOI. If the applicant does not receive notification from the department, coverage under this permit automatically commences on the thirty-first day following receipt by the department of a completed NOI (see General Condition G23).

Coverage for multiple *inactive sites* may be obtained by submitting a NOI with an appendix. For each inactive site included in the appendix the applicant shall include, at a minimum, the information required in Sections II, III, and Part I of Section X of the NOI.

Applicants who submitted NOIs prior to July 6, 1994, will be notified of their status concerning coverage under this permit by August 6, 1994.

Facilities with storm water discharge to a *storm sewer* operated by any of the following municipalities shall submit a copy of the NOI to the appropriate *municipality*:

Seattle, King County, Snohomish County, Tacoma, Pierce County, Clark County, City of Spokane, Spokane County, Kitsap County.

B. Facilities Required to Apply for Coverage

All new and existing facilities described in Appendix 1 that are owned or operated by private entities, or by state or *local governments*, or any federal facilities that discharge to *ground water*, and that have one or more of the following characteristics, shall apply for coverage under this general permit:

1. Any active site that:
 - a. Ditches, routes, collects, contains, or impounds process water or Type 3 storm water; or
 - b. Allows storm water to flow from outside the perimeter of a processing area into a processing area; or
 - c. Discharges process water from the site through use of any method other than percolation to ground water; or

- d. Discharges storm water or process water to surface waters of the State; or
2. Any inactive site that discharges storm water to surface waters of the State; or
3. Any facility that discharges to a municipal storm sewer; or
4. Any facility that operates a concrete batch plant; or
5. Any facility that operates a *hot mix asphalt plant* that uses a wet scrubber for air emissions control or any hot mix asphalt plant that discharges Type 3 storm water to surface water; or
6. Any facility that includes processing areas or storage areas for materials or operations identified in item 4 or 5 above or in Special Condition S5.E. that is located inside a designated *wellhead protection area*; or
7. Any *silvicultural point source*.

As described in the Fact Sheet, the department may provide coverage under this general permit to a site owner who is not the site operator of an industrial activity.

A site owner may obtain coverage under the following conditions:

1. The site owner shall submit a NOI in accordance with Special Conditions S3.A. and S4.A. of this general permit;
2. The site owner shall prepare all plans required in Special Condition S4. of this general permit;
3. The site owner shall notify the department by registered mail no less than ten (10) days prior to commencement of operations. The letter shall be directed to the Water Quality Permit Coordinator at the regional office which issued the permit and shall contain the following information:
 - a. the permit number,
 - b. the name of the site owner and operator,
 - c. the site location,
 - d. the Standard Industrial Classification Code(s) appropriate to the industrial activity at the site,
 - e. the amount and type of raw material or finished product to be produced.

4. The site owner shall provide the site operator copies of the plans specified in item 3 above and require compliance with the plans; and
5. The site operator shall not begin operations until all provisions of the plans and the notification specified in items 2, 3 and 4 above have been implemented.

C. Facilities EXCLUDED from Coverage Under This Permit

The department will not consider coverage under this general permit for the following facilities:

1. Any facility that has a pit design that will intercept more than one aquifer;
2. Any facility that conducts mining operations below the ordinary high water mark in a river or stream channel;
3. Any facility not covered by a DNR reclamation plan that uses materials that are not *inert* for reclamation or backfill;
4. Any facility that would impair adjacent water rights as a result of pit dewatering;
5. Any *closed site*;
6. Any facility covered under an *NPDES* or state Waste Discharge individual permit that includes requirements for process water or storm water management, treatment, or monitoring that are more stringent than the requirements in this general permit.

Any facility excluded from coverage under items C.1 through C.4 above shall apply to the department for an individual discharge permit.

D. Change of Permit Status

Any facility that changes permit status from active to inactive, or inactive to active, shall notify the department by registered mail no less than ten (10) days prior to making the change. The letter shall be directed to the Water Quality Permit Coordinator at the regional office which issued the permit and shall contain the following information:

1. The permit number;
2. The name of the site owner and operator (if different);

3. The site location;
4. The Standard Industrial Classification Code(s) appropriate to the industrial activity at the site; and
5. If reactivating an inactive site, the amount and type of raw material or finished product to be produced.

S4. Schedule of Compliance

A. Notice of Intent (NOD)

A Notice of Intent shall be submitted to the department:

1. For an existing facility: on or before October 4, 1994;
2. For an industrial facility that commences operation on or after August 6, 1994: at least 30 days prior to commencement of the industrial activity at the facility or upon the effective date of this permit, whichever occurs later.

B. Storm Water Pollution Prevention Plan (SWPPP)

To comply with the requirements of this general permit, the permittee of an active site shall:

1. For existing facilities:
 - a. By April 4, 1995, develop a SWPPP (see Special Condition S6. of this permit) and retain it on-site.
 - b. By October 4, 1995, complete the implementation of all *operational Best Management Practices (BMPs)* and applicable *source control BMPs*, as required under Special Condition S6. of this permit, that do not require *capital improvements*.
 - c. By April 4, 1996, complete the implementation of BMPs requiring capital improvements.
2. For active sites that begin operations after October 4, 1994, the permittee shall develop and implement the SWPPP prior to coverage under this general permit.

C. SWPPP for Erosion and Sediment Control (SWPPP/ESC)

To comply with the requirements of this general permit, the permittee of an active site or an inactive site shall:

1. For existing facilities:
 - a. By April 4, 1995, develop an SWPPP/ESC (see Special Condition S7. of this permit) and retain it on-site.
 - b. By October 4, 1995, complete the implementation of *operational BMPs* and applicable source control BMPs, as required under Special Condition S7. of this permit, that do not require *capital improvements*.
 - c. By April 4, 1996, complete the implementation of BMPs requiring capital improvements.
2. For active sites or inactive sites that begin operations after October 4, 1994, the permittee shall develop and implement the SWPPP/ESC prior to coverage under this general permit.

D. Liner Installation

To comply with the requirements of this general permit, for active sites that include SIC Codes 3273 or 2951 and associated truck washout areas, the permittee shall:

1. Implement a plan to line all process water impoundments in accordance with Special Condition S5.B. by October 4, 1997; or
2. Prepare an individual engineering report for the facility and submit an application for an individual permit; or
3. Participate in a group engineering report with other facilities in the same SIC Code; and
4. Comply with all effluent limitations in this general permit.

Any engineering report submitted to the department shall conform to the requirements of Special Condition S4.E.

A permittee that is required to prepare an engineering report under item 2 or 3 above shall remain covered by this general permit during the period of the compliance schedule in Special Condition S4.E.

E. Engineering Report

Any group or individual engineering report submitted to the department for approval in accordance with Special Condition S4.D. shall be completed no later than April 4, 1997.

Any group or individual engineering report submitted to the department for approval in accordance with Special Condition S1.H. shall be completed no later than October 4, 1996.

The engineering report shall evaluate the treatment requirements necessary to control the discharge of *pollutants* and calculate the capital costs and the operating and maintenance costs for treating the discharge. The engineering report shall be prepared in accordance with Chapter 173-240 WAC. The proposed scope of the report shall be submitted to the department for approval.

Any facility that participates in a group or individual engineering report shall submit annual progress reports to the department. The progress reports shall include, at a minimum, an annual summary of progress toward completion of the approved scope of work.

SS. Process Water Management

- A. Effluent limitations are stated in Special Condition S1. If effluent from two or more industrial activities is combined, the most stringent effluent limitation shall apply.
- B. Any lined impoundment required in this general permit shall have adequate hydraulic loading capacity to provide treatment of wastewater and contain the volume of precipitation from the *design storm*, and adequate structural load-bearing design to support any mechanical method used for sludge removal. The impoundment shall be constructed of, at a minimum:
 - a. Synthetic or flexible membrane material not less than 30 mils thick that shall not react with the effluent; or
 - b. Concrete with a minimum thickness of 6 inches; or
 - c. Asphalt with a minimum thickness of 6 inches; or
 - d. Steel-walled containment tank.
- C. No wastewater shall be discharged to surface water or ground water from a maintenance shop.
- D. Any facility requiring dust suppression shall not utilize ligninsulfonate in excavated areas.

- E. Any facility that stores or uses toxic materials, petroleum contaminated soils (PCS) that fail to meet the most protective MTCA Method 'A' treatment levels (WAC 173-340-740(2)), chemicals, cement, admixtures, fuels, lubricants, asphalt concrete that has not been used for construction, tar, or other petroleum products shall provide physical coverage and containment for such materials.
- F. Any diversion ditch, channel, pond, trap, impoundment, or other detention/retention BMP constructed at the site for treatment of process water or storm water shall be designed, constructed and maintained to contain and provide treatment for the peak flow for the design storm.
- G. No process water or Type 3 storm water shall be discharged from a hot mix asphalt plant, a concrete batch plant, asphalt truck washwater area, or concrete truck washwater area into a pit or excavation that penetrates the water table.

S6. Storm Water Pollution Prevention Plan (SWPPP)

Permittees of active sites shall prepare and implement a SWPPP for Type 3 storm water in accordance with the schedule of Special Condition S3. and the requirements of this Special Condition.

A. General Requirements

1. Retention and availability

The permittee(s) shall retain the SWPPP on-site or within reasonable access to the site and make it immediately available upon request to the department and, if discharge is to a municipal storm sewer system, to the municipal operator of the storm sewer system. The SWPPP and all of its modifications shall be signed in accordance with General Condition G20.

2. Modifications

- a. The department may notify the permittee when the SWPPP does not meet one or more of the minimum requirements of this section. Within 30 days of such notice, the permittee shall submit to the department a plan for modification of the SWPPP and a schedule for implementing the modification(s).
- b. The permittee shall modify the SWPPP whenever there is a change in design, construction, operation, or maintenance which cause(s) the SWPPP to be less effective in controlling the pollutants.

- c. Whenever a self-inspection reveals that the description of potential pollutant sources or the pollution prevention measures and controls identified in the SWPPP are inadequate, the SWPPP shall be modified, as appropriate, within two (2) weeks of such inspection. The permittee shall provide for implementation of any modifications to the SWPPP in a timely manner.
3. The Permittee may incorporate applicable portions of plans prepared for other purposes. Plans or portions of plans incorporated into a SWPPP become enforceable requirements of this permit. (A Pollution Prevention Plan prepared under the Hazardous Waste Reduction Act, Chapter 70.95C RCW, is an example of such a plan.)
4. Any BMP constructed at the site shall be designed, constructed, and maintained to provide adequate treatment of storm water to comply with permit effluent limits for the design storm.

B. SWPPP Contents and Requirements

The SWPPP shall contain, at a minimum, the following:

1. Assessment and description of existing and potential pollutant sources, including:
 - a. A certification by a responsible official (see General Condition 20) of the facility that the discharge has been investigated for the presence of non-storm water discharges. The certification shall address:
 - i. The required inspection(s) according to Special Condition S9, to identify areas contributing to a storm water discharge associated with industrial activity.
 - ii. A comparison of the sample analyses with the permit effluent limits. Any permittee not in compliance with the permit effluent limitations shall comply with General Condition G5.
 - b. A site map showing the storm water drainage and discharge structures, an outline of the storm water drainage areas for each storm water discharge point (including discharges to ground water), and adjacent surface water locations.

The site map shall also identify all areas associated with industrial activities including, but not limited to, the following:

- i. Loading and unloading of dry bulk materials or liquids,

- ii. Outdoor storage of materials or products,
- iii. Outdoor processing,
- iv. Processes that generate dust and particles,
- v. Roofs or other surfaces exposed to air emissions from a process area,
- vi. On-site waste treatment, storage, or disposal,
- vii. Vehicle and equipment maintenance and/or cleaning,
- viii. Paved areas and buildings
- ix. Underground storage of materials or products

Lands adjacent to the site shall also be depicted where helpful in identifying discharge points or drainage routes.

- c. An inventory of the types of materials handled at the site that are exposed to precipitation or run-off.

- 2. A description of the BMPs that are needed for the facility to reduce the potential for the discharge of *significant amounts* of pollutants. The description shall include the following minimum requirements:

- a. Operational BMPs

- i. Pollution Prevention Team: Identification of specific individuals within the organization who are responsible for developing the SWPPP and assisting the responsible official in its implementation, maintenance, and modification. The activities and responsibilities of the team should address all aspects of the facility's SWPPP.
- ii. Good Housekeeping: The ongoing maintenance and cleanup, as appropriate, of areas that may contribute pollutants to storm water discharges; the SWPPP should include cleaning and maintenance schedules.
- iii. Preventive Maintenance: Inspection and maintenance of the storm water drainage and treatment systems (if any) and of equipment and systems that could fail and result in contamination of storm water.
- iv. Spill Prevention and Emergency Cleanup Plan: Identification of areas where potential spills can contribute pollutants to storm water discharges. Specific material handling procedures, storage requirements, and cleanup equipment and procedures should be identified, as appropriate. BMP S1.80 in Ecology's *Storm Water Management Manual (SWMM)* should be used for emergency cleanup guidance. The SWPPP may include excerpts of plans prepared for other purposes (e.g. Spill Prevention Control and Countermeasure (SPCC) plans

under Section 311 of the CWA) where those excerpts meet the intent of this requirement.

- v. Employee Training: Annual training of employees on the SWPPP, that emphasizes spill response, good housekeeping, and material management practices.
- vi. Inspection and Recordkeeping: Identification of plant personnel who will inspect designated equipment and plant areas as required in Special Condition S9. A tracking or follow-up procedure shall be identified to ensure that appropriate action has been taken in response to the inspection. Inspection reporting and recordkeeping procedures and schedules as required in Special Condition S9. and General Condition G19. of this permit shall be described.

b. Source Control BMPs

Selection of applicable source control BMPs from the following list, as further described in Volume IV of the department's SWMM for the *Puget Sound Basin*, or other equivalent BMPs identified in Fact Sheet Bibliography. For industrial activities not listed below, BMPs that prevent the pollution of storm water shall be employed.

- i. BMP S1.10 Fueling Stations
- ii. BMP S1.20 Vehicle/Equipment Washing and Steam Cleaning
- iii. BMP S1.30 Loading and Unloading Liquid Materials
- iv. BMP S1.40 Liquid Storage in Above-Ground Tanks
- v. BMP S1.50 Container Storage of Liquids, Food Wastes or Dangerous Wastes
- vi. BMP S1.60 Outside Storage of Raw Materials, By-Products or Finished Products

3. An implementation schedule including interim milestone dates for the BMPs and other activities described in the SWPPP. This schedule shall not extend beyond the requirements specified in Special Condition S4.

C. If application of the BMPs in Special Condition S6.B.2. is not sufficient to prevent the discharge of pollutants in concentrations that violate permit effluent limitations, then additional BMPs shall be implemented for the facility:

a. Treatment BMPs

Providing treatment of storm water as needed, including but not limited to: oil/water separators, biofiltration, infiltration basins, detention facilities, or *constructed wetlands*. Facilities within

the Puget Sound Basin shall use Volume III of the department's SWMM as guidance for designing treatment BMPs. Facilities outside the Puget Sound Basin shall use Volumes III or IV of the department's SWMM or standard engineering practice for selecting appropriate treatment strategies.

b. Innovative BMPs

Innovative treatment, source control, reduction or recycling, or operational BMPs beyond those identified in the department's SWMM are encouraged if they help achieve the objectives listed in this Special Condition.

S7. SWPPP for Erosion and Sediment Control (SWPPP/ESC)

Permittees of active sites and inactive sites shall prepare and implement a SWPPP/ESC for *Type 2* storm water in accordance with the schedule of Special Condition S4.C. and the requirements of this Special Condition. The SWPPP/ESC shall describe *erosion and sediment control BMPs*, including *stabilization* and structural practices, both of which shall be implemented to minimize *erosion* and the transport of sediments during the operation of the facility. The permittee is responsible for ensuring the coordination of the SWPPP/ESC with final reclamation plans required by the Department of Natural Resources (DNR) or local government.

A. General Requirements

1. Compliance with local or state requirements

This general permit does not relieve the permittee of compliance with any more stringent requirements of local agencies or other state agencies with jurisdiction. Where the department has determined such local or state requirements to be equivalent, compliance with local or state requirements meets the requirements of this permit.

2. Retention and Availability

The permittee shall retain the SWPPP/ESC, inspection reports, and all other reports required by this Special Condition for at least three years after the date of *final stabilization* of the site. The permittee shall make these documents available immediately upon request to the department and to local agencies or other state agencies that have jurisdiction. The SWPPP/ESC and all of its modifications shall be signed in accordance with General Condition G20.

B. SWPPP/ESC Contents and Requirements

1. Stabilization Practices

The SWPPP/ESC shall include a description of stabilization BMPs, including site-specific scheduling of implementation of the practices. Stabilization practices may include: temporary seeding, permanent seeding, mulching, geotextiles, sod stabilization, vegetative buffer strips, protection of trees, preservation of mature vegetation, decreasing slope angles or lengths, and other appropriate measures. Stabilization measures shall be initiated as soon as practicable in portions of the site where mining activities have temporarily or permanently ceased. The plan shall ensure that the following requirements are satisfied:

- a. All exposed and unworked soils shall be stabilized by suitable and timely application of BMPs.
- b. Existing vegetation should be preserved where feasible. In the field, areas that are not to be disturbed shall be permanently marked; these include setbacks, sensitive/critical areas and their buffers, trees, and drainage courses.
- c. Cut and fill slopes shall be designed and constructed in a manner that will minimize erosion.
- d. Stabilization adequate to prevent erosion of outlets and adjacent stream banks shall be provided at the outlets of all conveyance systems.
- e. Wherever vehicle access routes intersect paved roads, provisions must be made to minimize the transport of sediment (mud) onto the paved road. If sediment is transported onto road surfaces adjacent to the site the affected roads shall be cleaned on a regular basis.

2. Structural Practices

In addition to stabilization practices, the SWPPP/ESC shall include a description of structural BMPs to divert flows from exposed soils, store flows, or otherwise limit runoff and the discharge of pollutants from exposed areas of the site. Such practices may include silt fences, earth dikes, drainage swales, sediment traps, check dams, subsurface drains, pipe slope drains, level spreaders, storm drain inlet protection, rock outlet protection, reinforced soil retaining systems, gabions, and sediment basins. The installation of these devices may be subject to

Section 404 of the Federal *Clean Water Act*. The plan shall ensure that the following requirements are satisfied:

- a. Properties adjacent to the project site shall be protected from sediment deposition caused by activities at the site.
- b. Sediment ponds and traps, perimeter dikes, sediment barriers, and other BMPs intended to trap sediment on-site shall be constructed as a first step. These BMPs shall be functional before land is disturbed. Slopes of earthen structures used for sediment control such as dams, dikes, and diversions shall be stabilized immediately after construction.
- c. Any BMP constructed at an active site shall be designed to maintain separation of Type 2 storm water from Type 3 storm water and Type 1 storm water for the peak flow from the design storm.

3. Selection of Stabilization and Structural BMPs

Permittees within the Puget Sound Basin shall select from BMPs described in Volume II of Ecology's SWMM or other equivalent and appropriate BMPs to comply with the requirements listed in Special Conditions S7.B.1. and S7.B.2. above. Permittees outside the Puget Sound Basin shall select from BMPs described in the Erosion and Sediment Control Handbook, by Goldman et al.; Volume II of Ecology's SWMM as adapted for local conditions using best professional judgement; or other equivalent and appropriate BMPs listed in the Fact Sheet Bibliography to comply with the requirements listed in sections 1 and 2 above.

4. Maintenance

All structural and stabilization practices shall be inspected, maintained, and repaired as needed to assure continued performance of their intended function.

5. Inspections

For active sites, all on-site erosion and sediment control measures shall be inspected at least once every seven days, and within 24 hours after any storm event of greater than 0.5 inches of rain per 24 hour period. A file containing a log of observations shall be maintained.

For inactive sites, a Registered Professional Engineer shall certify every three years that the facility is in compliance with this general permit.

S8. Monitoring Plan (MP)

A Monitoring Plan for active sites shall be prepared and implemented in accordance with the schedule of Special Condition S2. and the requirements of this Special Condition.

A. General Requirements

1. Sample Collection Methods

- a. The USEPA NPDES Storm Water Sampling Guidance Document (EPA 833-B-92-001, July 1992), or equivalent sampling methods, shall be used as guidance for both storm water and process water sampling procedures.
- b. Samples taken to meet the requirements of this general permit shall be collected during the facility's normal working hours and while processing is at normal levels;

2. Lab Certification

After July 1, 1995, all monitoring data, except for flow, temperature, pH, electrical conductivity, and internal process control parameters, shall be prepared by a laboratory accredited under the provisions of Accreditation of Environmental Laboratories, Chapter 173-50 WAC.

All monitoring data submitted to the department in an engineering report prepared in accordance with Special Condition S4.E. shall be prepared by a laboratory accredited under the provisions of Accreditation of Environmental Laboratories, Chapter 173-50 WAC.

3. Retention and availability

The permittee(s) shall retain the MP on-site or within reasonable access to the site and make it immediately available upon request to the department. The MP and all of its modifications shall be signed in accordance with General Condition G20.

4. Any Total Petroleum Hydrocarbons laboratory analysis shall conform to WTPH 418.1 Modified, or equivalent, as approved by the department.

B. MP Contents and Requirements

The Monitoring Plan shall contain the following:

1. Assessment of Monitoring Requirements

As specified in Special Condition S2. of this general permit, the permittee shall perform the required monitoring by collecting samples at the required frequency of sampling and at the required location(s).

- a. The required parameters for monitoring shall be determined by the level of industrial activity conducted at the facility. If effluent from two industrial activities is combined for discharge and each requires the same monitoring parameter, only one analysis for that parameter shall be required at that point of discharge.
- b. The required frequency of collecting sample(s) for analysis shall be determined by whether the samples are of storm water or process water. Storm water samples shall be collected in accordance with Special Conditions S2, S6.B.1.a, and S9. Process water samples shall be collected monthly for any and all months or partial months during which the facility is classified as an active site.
- c. The required location(s) for obtaining sample(s) shall be determined by the number of locations where water is collected within the facility prior to a *point source* discharge to surface water or ground water.
- d. Any lined impoundment that is designed, constructed, and maintained in accordance with Special Condition S5.B. that is used solely for recycling process water shall be exempt from sampling requirements.
- e. Any sludge generated by impounding process water or Type 3 storm water shall be subject to Special Condition S11.

2. The standard procedures employed at the facility for collecting samples for laboratory analysis shall be stated in the Monitoring Plan.

S9. Storm Water Inspections, Monitoring, Reports, and Recordkeeping

A. Storm Water Inspections and Monitoring

An assessment of the SWPPP BMPs is required by this permit by annual sampling and laboratory analysis of Type 3 storm water for pollutants in accordance with Special Condition S2. Additional sampling and laboratory analysis is encouraged and may be appropriate during development and implementation of the SWPPP.

1. As a minimum, all active sites covered under this permit are required to conduct two inspections and one compliance sampling of storm water discharge per year: an inspection and sampling of storm water discharge during the wet season (October 1 - April 30) and an inspection during the dry season (May 1 - September 30).
2. The wet season inspection and sampling of storm water discharge shall be conducted during a rainfall event adequate in intensity and duration to verify that:
 - a. The description of potential pollutant sources required under this permit is accurate;
 - b. The site map as required in the SWPPP (Special Condition S7.) has been updated or otherwise modified to reflect current conditions; and
 - c. The controls to reduce pollutants in storm water discharges associated with industrial activity identified in the SWPPP are being implemented and are adequate.

The inspection and sampling shall be conducted by personnel named in the SWPPP. The sampling of storm water discharge shall be conducted in accordance with the Monitoring Plan (Special Condition S8.). The wet-season inspection shall include observations for the presence of floating materials, suspended solids, oil and grease, discolorations, turbidity, odor, etc. in the storm water discharge(s). Records shall be maintained of the description of the methods used, date(s) of testing, locations observed, and test results.

3. The dry season inspection shall be conducted by personnel named in the SWPPP. The dry season inspection shall determine the presence of non-storm water discharges such as process water to the *storm water drainage system*. If a non-storm water discharge is discovered, the permittee shall comply with General Condition G5 and shall eliminate the discharge within ten days. If the discharge cannot be eliminated within ten days, the discharge shall be considered process water and shall be subject to all process water conditions of this general permit.